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ABSTRACT OF THE DISCLOSURE

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1	A method is provided for replicating DNA, and in particular for replicating
2	large segments of DNA. A primer is combined with a target DNA molecule to be replicated.
3	The primer is designed to be at least partially homologous to a known site on the target
4	DNA, and to create a D-loop when hybridized with that site. A replisome is then assembled
5	at the D-loop, and this replisome creates a copy of the DNA, starting at the primer binding
6	site. By utilizing two species of D-loop primers which bind to remote sites on the DNA
7	flanking a region to be replicated, large sections of DNA can be replicated in a manner
8	comparable to PCR. The replicated DNA can be analyzed to detect variations in the genetic
9	sequence of the target, for linkage mapping and as a source of longer DNA molecules
	having a desired sequence.

TOBSOUSS. TOESOL